

WHAT IS CLAIMED IS:

1. Noctilucent polyurethane chips prepared by the process comprising:
 - 5 collecting waste polyurethane scraps and separating the scraps according to their colors;
 - pulverizing the waste polyurethane scraps in a predetermined size;
 - mixing 2-5kg of stearic acid, 1-10kg of a photoluminescent pigment, 1-3kg of a flame retardant, 0.1-1kg of titanium dioxide and 10-30kg of heavy calcium carbonate based on 100kg of the pulverized waste polyurethane scraps;
 - 10 extruding the mixture through an extruder; and
 - cutting the extruded polyurethane in particle diameter of 3-10mm.
2. Noctilucent polyurethane chips according to claim 1 wherein the waste polyurethane scraps are selected from soles of shoes, refrigerator parts, vehicle parts, and decrepit polyurethane resilient pavement.
- 15 3. Noctilucent polyurethane chips according to claim 1, wherein the mixing comprises stirring.
4. A method of manufacturing noctilucent polyurethane chips comprising the steps of:
 - 20 obtaining a quantity of coarse waste polyurethane scraps, separating the scraps according to their colors and removing impurities stuck to the scraps;
 - pulverizing the prepared waste polyurethane scraps in a predetermined size;
 - based on 100kg of the pulverized waste polyurethane scraps, adding 2-5kg of stearic acid, 1-10kg of a photoluminescent pigment, 1-3kg of a flame retardant,

0.1-1kg of titanium dioxide and 10-30kg of heavy calcium carbonate, and mixing by stirring and then extruding through an extruder; and
cutting the extruded polyurethane in particle diameter of 3-10mm.

5. A method of manufacturing noctilucent polyurethane chips according to claim 3, wherein the waste polyurethane scraps are selected from soles of shoes, refrigerator parts, vehicle parts, and decrepit polyurethane resilient pavement.